#### INTERNATIONAL SEARCH REPORT

International application No. PCT/KR2005/001664

## A. CLASSIFICATION OF SUBJECT MATTER

## IPC7 H01J 1/30

According to International Patent Classification (IPC) or to both national classification and IPC

### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC7 H01J 1/30, H01J 1/02, H01J 1/62, H01L 21/338

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Patents and Applications for inventions, since 1975

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used)
KIPASS

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                   | Relevant to claim No. |
|-----------|--|-----------------------|
| A         | US 5850120 B (NEC CORP.) 15 Dec. 1998 see the whole document   | 1-24                  |
| A         | US 2002/0036599 A (Michiyo Nishimura) 28 Mar. 2002 see the whole document                            | 1-24                  |
| A         | US 5864147 B (NEC CORP.) 26 Jan. 1999<br>see the whole document                                      | 1-24                  |
| A         | US 5945777 B (St. Clair Intellectual Property Consultants, Inc.) 31 Aug. 1999 see the whole document | 1-24                  |
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| نـــا | Further | document | s are | listed | in the | conti | nuation | of Box | C. |
|-------|---------|----------|-------|--------|--------|-------|---------|--------|----|
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See patent family annex.

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Date of the actual completion of the international search

09 SEPTEMBER 2005 (09.09.2005)

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/KR2005/001664

| Patent document<br>cited in search report | Publication date | Patent family member(s)                                    | Publication<br>date                                  |
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| US 5850120 B                              | 15-12-1998       | FR 2737041 A<br>JP 9-22650 A<br>KR 266517 B<br>TW 413828 B | 24-01-1997<br>24-01-1997<br>15-09-2000<br>01-12-2000 |
| US 2002/0036599 A                         | 28-03-2002       | CN 1363944 A<br>JP 14-169505 A<br>KR 2002-23670 A          | 14-08-2002<br>14-06-2002<br>29-03-2002               |
| US 5864147 B                              | 26-01-1999       | KR 1998-5145 A<br>JP 10-12127 A                            | 30-03-1998<br>16-01-1998                             |
| US 5945777 B                              | 31-08-1999       | NONE   |  |